

## CLAIMS

### What is claimed is:

1. A light-emitting diode device, comprising a light-emitting diode chip, a connection pin and a transparent envelop body, characterized in that a top surface of the envelop body being indented.
2. The device of Claim 1, wherein the envelop body is a cylindrical body and the indented top surface forms an inward concave.
3. The device of Claim 2, wherein the inward concave is a conic concave.
4. The device of Claim 2, wherein the inward concave is a polygonal concave.
5. The device of Claim 1 or 2, wherein a curvature of the inward concave is about  $100^{\circ}$  to  $160^{\circ}$ .
6. The device of Claim 5, wherein the curvature is  $130^{\circ}$  to  $140^{\circ}$ .
7. The device of Claim 2, wherein the envelop body is a cylindrical body and the indented top surface forms a semi-spherical recess.
8. The device of claim 1, wherein the envelop body has a color substantially the same as that of the light generated by the light-emitting diode chip.
9. The device of Claim 1, wherein the connection pin has an internal end terminated with a frame for holding the light-emitting diode chip and the frame forms a recessed space for accommodating the light-emitting diode chip therein.